

EGO SMP 818 CONSTRUCTION

is an elastic single-component high-performance sealant on a hybrid basis with a very broad adhesion spectrum and optimum processing properties. For special sealing of structural joints in accordance with DIN 18540 as well as for use in sanitary areas and HVAC systems. It is an early-strength, low-modulus joint sealant in accordance with DIN 18540-fb and DIN EN 15651-1 for facade applications.

CHARACTERISTICS

The product is characterized by the following properties:

extremely high resilience · isocyanate-free · odorless · paint-compatible · silicone-free · solvent-free · virtually no shrinkage · weather, ageing & UV-resistant

APPLICATION AREAS

EGO SMP 818 is suitable for sealing highly stressed connection and expansion joints in interior and exterior areas.

Areas of application:

apparatus engineering · automotive · building construction · caravan · concrete construction · doors · dry construction · facade floor · food · HVAC systems · metal construction · pedestrian crossings · roof · sanitary · timber construction · windows

Good adhesion to: [please note primer table]

aluminum · ceramic · concrete · enamel · fiber cement · glass · masonry · metal · plaster · pvc-hard · various plastics · wood

Not or only partially suitable for: [Own tests assumed and recommended]

Bitumen · PE · PP · silicone · etc.

APPLICATION AREAS

- ① Clean the bonding surfaces with EGO CLEANER.*
 - ② The bonding surfaces must be clean, dry, stable and free of dust and release agents.
 - ③ Very good adhesion to many materials without primer.
 - ④ EGO PRIMER is recommended on absorbent substrates for optimum adhesion properties.*
 - ⑤ The object, material and ambient temperature should not exceed +35 °C during the curing time of the product.
 - ⑥ Process indoors with good ventilation and then continue to ventilate well.
 - ⑦ Use EGO SMOOTHING AGENT for post-treatment.
- * Notes:
- Select cleaner depending on the substrate.
 - Do not prime glass and glass-like surfaces.
 - The joint dimensions to be sealed must comply with the relevant standards and regulations.
 - Adhesion and compatibility with other materials should be checked and tested for the individual objects.
 - Not suitable for glazing rebate sealing, for flooring joints and for sanitary or permanently wet areas.
 - For sealing of glazing under UV loads, we recommend using our high-quality EGOSILICONES.
 - Own tests or consultation recommended.

STANDARDS AND TESTS

EGO SMP 818 corresponds to the:

Standards according to:

- DIN 18540-fb
- DIN 52455-1 Early resistance [exposure C with Ca(OH)₂-saturated water]
- DIN EN ISO 11600 F 25 LM
- DIN EN 15651-1 F 25 LM EXT-INT-CC
- DIN EN 15651-3 XS1
- DIN ISO 16936-2 [no discoloration on porous substrates without printing]

IVD data sheets:

- No. 1, 9, 10, 16, 19-1, 20, 21, 22, 24, 25, 27, 28, 29, 31, 35

The following tests were achieved by EGO SMP 818:

ift-certificate:

- Testing of the joint sealant EGO SMP 818 in accordance with DIN 18540

Clearance declaration:

- Food

European conformity:

- CE marking declaration of performance LE/DoP no. EGO4181123

Test certificate:

- for use in ventilation and air conditioning systems in accordance with VDI 6022 „Hygiene requirements for ventilation and air conditioning systems and devices“.

SUSTAINABILITY

VOC requirements:

- EMICODE EC1^{PLUS}
- AgBB scheme
- french VOC class A+ and KMR regulation
- LEED certificate

BMS product verifications:

- LEED Building Design and Construction V4 (2015)
- BNB BN 2015 (quality level 5/5)
- BREEAM International New Construction 2016
- DGNB New Buildings 2018 (quality level 4/4)

Listed in the DGNB Navigator:

- EGO SMP 818 is listed in the DGNB Navigator
- EGO SMP 818 has been awarded the DGNB-Navigator label with the registration code: 2Z0GP5

Listung in baubook:

- EGO SMP 818 ist baubook gelistet

Quality mark:

- IVD-Industrieverband Dichtstoffe e.V. - tested by ift-Institut für Fenstertechnik e.V. Rosenheim

Environmental Product Declaration (EPD):

- Sample EPD (Polyurethane and silane modified polymer based products, group 1)

Material requirements for QNG / Sustainable Building Quality Seal:

- Adhesives and sealants in interiors incl. TGA according to BNB_BN_1.1.6, Annex 1, item 8 and QNG-313, items 4.1, 4.2
- Adhesives and sealants for creating the airtightness of the façade in accordance with BNB_BN_1.1.6, Annex 1, Item 9 and QNG-313, Item 4.3



TECHNICAL DATA

Specifications	Results	in accordance with
Material basis	SMP hybrid polymer, single-component	
Density	approx. 1.4 g/cm ³	DIN EN ISO 1183-1
Handling Temperature	+5 °C to +35 °C	
Temperature resistance	-30 °C to +80 °C	
Shore A Hardness	approx. 20	DIN EN ISO 868
Extrusion Rate	approx. 616 g/min (6mm; 3 bar)	DIN EN ISO 8394-1
Module / tensile stress	approx. 0.4 N/mm ²	DIN EN ISO 8339
Elongation at break	approx. 280 % approx. 410 % [S2, 7d 23 °C / 50 RH]	DIN EN ISO 8339 DIN 53504
Acceptable total deformation	25 %	
Resilience	approx. 90 %	DIN EN ISO 7389
Tensile strength T _{max}	approx. 0.7 N/mm ² (7d 23°C / 50 % RH)	DIN 53504
Tensile shearing strength T _{max} (Stainless steel, 2 mm)	approx. 0.24 MPa (7d 23°C / 50 % RH)	
Tear resistance	approx. 4.5 kN/m	ISO-34-1 method B
Volume shrinkage	approx. 2 %	DIN EN ISO 10563
Viscosity	stable	DIN EN ISO 7390
Skin formation time	approx. 30 min. [at 23°C and 50 % RH]	
Vulcanisation	2-3 mm / 24 hours [at 23°C and 50 % RH]	
Building Material Class	B2, normally flammable Euro-class E	DIN 4102 DIN EN 13501

AVAILABILITY AND STORAGE

Colors	<ul style="list-style-type: none">▪ white, stone gray, light gray, pebble gray, gray, basalt gray, concrete gray, black▪ other colors on request
Packaging	<ul style="list-style-type: none">▪ 290 ml cartridges [20 pieces/carton, 60 cartons/pallet]▪ 600 ml foil bags [20 pieces/carton, 30 cartons/pallet]
Storage	Original packaging is cool and dry storable (+15°C until +25°C, relative humidity <60%): <ul style="list-style-type: none">▪ 12 months [cartridges, foil bags]

SAFETY INFORMATION

Complies with	Regulation (EC) No 1907/2006 (REACH)
Not hazardous according to	Regulation (EC) No 1272/2008 (CLP)
Not subject to labeling according to	Regulation (EC) No 1272/2008 (CLP)
Safety instructions	see SDS
Disposal instructions	see SDS

For warnings see EC safety data sheet. The above information is the result of thorough research; previous information is hereby invalidated. Check for yourself whether the product is suitable for your purposes. Our possible liability is limited to the value of our product as such. We cannot accept any liability for indirect damage, in particular for the use or unusability of the product. No one is authorized to make recommendations or assurances on our behalf that go beyond the content of our information sheets.